

Establishing an End to End Flash Flood Warning System

Abstract

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In order to save lives and mitigate property losses from flash flooding, an end to end flash flood warning system needs to be developed. An end to end Flash flood warning system consists of a data collection system, a communications system, a modeling system, an operational center, a dissemination system, and a decision support system. User must receive flash flood warnings with enough time to respond with life saving actions and or time to reduce property losses. The end to end system is similar to a chain with many links. Each component of the system is a link in the chain and must be fully functional. If one link in the chain fails, then disaster may occur. Hydrologist, meteorologists, Emergency managers and media personnel must cooperate fully for an end to end flash flood warning and response system to be operational and successful.